

Reconsidered 1/9/07 187

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model  
Run on: November 17, 2003, 09:13:37 ; Search time 3691 Seconds  
(without alignments)  
10496.184 Million cell updates/sec.

Title: US-10-043-539A-1  
Perfect score: 947  
Sequence: 1 gtttcaaatcggtggagg.....gtttcaaatcgatcgat 947

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 288711 seqs, 2045481386 residues  
Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl:  
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3: gb\_in:  
4: gb\_om:  
5: gb\_ov:  
6: gb\_ph:  
7: gb\_pi:  
8: gb\_pl:  
9: gb\_pr:  
10: gb\_ro:  
11: gb\_sts:  
12: gb\_sy:  
13: gb\_un:  
14: gb\_vi:  
15: em\_ba:  
16: em\_fun:  
17: em\_hum:  
18: em\_in:  
19: em\_mu:  
20: em\_om:  
21: em\_or:  
22: em\_ov:  
23: em\_pat:  
24: em\_ph:  
25: em\_pi:  
26: em\_ro:  
27: em\_sts:  
28: em\_un:  
29: em\_vi:  
30: em\_hgt\_hum:  
31: em\_hgt\_inv:  
32: em\_hgt\_other:  
33: em\_hgt\_mus:  
34: em\_hgt\_pln:  
35: em\_hgt\_rdm:  
36: em\_hgt\_tam:  
37: em\_hgt\_vrt:  
38: em\_sv:  
39: em\_hgt\_hum:  
40: em\_hgt\_mus:  
41: em\_hgt\_other:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	947	100.0	947	1	AF207701 Staphyloc
2	826.4	87.3	304050	1	AP004829 Staphyloc
3	826.4	87.3	307750	1	AP003136 Staphyloc
4	824.8	87.1	348550	1	AP003364 Staphyloc
5	369.8	39.0	384	6	AX620460 Sequence
6	307	32.4	300698	1	AE016750 Staphyloc
7	199.4	21.1	834	6	AX620416 Sequence
8	96.2	10.2	8056	6	AX599046 Sequence
9	92.8	9.8	170627	2	AC125567 Plasmodi
10	91.4	9.7	67970	3	PFMAL1P3
11	90.6	9.6	14422	3	AF466146
12	90.4	9.5	86826	3	PFMAL3P5
13	90	9.5	8056	6	AX599046 Sequence
14	87.6	9.3	258658	3	AX014832 Plasmodi
15	87.2	9.2	8056	6	AX598900 Sequence
16	85.2	9.0	286208	2	AC117140
17	85	9.0	840	8	CHS0180K
18	84.8	9.0	2009	6	AX457067 Sequence
19	84.6	8.9	250029	3	AX014820 Plasmodi
20	84.2	8.9	259474	9	HUAC004605
21	83.6	8.8	175544	2	AC117342
22	83	8.8	137411	9	AC092066
23	82.8	8.7	1090	3	AB084761
24	82.8	8.7	169046	5	AL928828
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27	82.2	8.7	196875	2	AC098095
28	82	8.7	6292	6	AX251493 Sequence
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30	81.6	8.6	349751	3	PFMAL4P3
31	81.4	8.6	156040	2	AC004153
32	81.4	8.6	250707	3	AE014848
33	81.4	8.6	347050	3	PFAL29351
34	81.2	8.6	99003	2	AL390756
35	81.2	8.6	110000	2	PFMAL13_09
36	81.2	8.6	318221	2	PFMAL13P3
37	81	8.6	162445	9	AL158151
38	81	8.6	154640	2	BX005461
39	81	8.6	168558	2	BX322549
40	80.8	8.5	84563	5	AC096885
41	80.6	8.5	313050	3	PFAL29352
42	80.2	8.5	8056	6	AX598900
43	80.2	8.5	60604	2	AC023466
44	80.2	8.5	181752	9	AC098822
45	80	8.4	112695	8	AC119418

ALIGNMENTS

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Staphylococcus aureus putative transposase gene, partial cds; and  
Sarr (sarr) gene, complete cds.  
ACCESSION AF207701.1 GI:11493941  
VERSION  
KEYWORDS  
SOURCE Staphylococcus aureus  
ORGANISM  
REFERENCE  
1 (bases 1 to 947)  
Bacteria; Firmicutes; Bacillales; Staphylococcus.  
AUTHORS Cheung A.L. and Manna A.C.  
TITLE Characterization of sarr, a modulator of sar expression in Staphylococcus aureus

JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 947)  
 AUTHORS Cheung A.L. and Manna, A.C.  
 TITLE Direct Submission  
 JOURNAL Submitted (22-NOV-1999) Microbiology, Dartmouth Medical School,  
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 BASE COUNT 374 a 112 c 145 g 316 t  
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 421 CTAAGAGATTTAAATTTGTTATCAAGAAAGAGTTTCAAGACGAAGCAAGTATT 480  
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Db 481 GTTTATGTTACAGATACACAAAAGCAAAATTAATTCAAAATCTGATTTTCAAGAAATTAAGA 540  
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 Db 781 ATATTTTCTCGCATATAGCTTTGGATGTTTCCCAAGTATTTTCTTATAATTTGTGTGCGA 840  
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 Qy 901 TCGGATGTTATGCTATTAAGAACTAATGTTTTCATAACTGAATCGAT 947  
 Db 901 TCGGATGTTATGCTATTAAGAACTAATGTTTTCATAACTGAATCGAT 947  
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 LOCUS AP004829/c 304050 bp DNA linear BCT 20-DEC-2002  
 DEFINITION Staphylococcus aureus subsp. aureus MW2 DNA, complete genome,  
 strain: MW2, section 8/10.  
 ACCESSION AP004829 BA000033  
 VERSION AP004829.1 GI:121205117  
 KEYWORDS Staphylococcus aureus subsp. aureus MW2  
 SOURCE Staphylococcus aureus subsp. aureus MW2  
 ORGANISM Bacteria; Firmicutes; Bacillales; Staphylococcus.  
 REFERENCE 1  
 AUTHORS Baba, T., Takeuchi, F., Kuroda, M., Yuzawa, H., Aoki, K., Oguchi, A.,  
 Nagai, Y., Iwama, N., Asano, K., Naimi, T., Kuroda, H., Cui, L.,  
 Yanamoto, K. and Hiramatsu, K.  
 TITLE Genome and virulence determinants of high virulence  
 community-acquired MRSA  
 JOURNAL Lancet 359 (9320), 1819-1827 (2002)  
 MEDLINE 22040717  
 PUBMED 12044378  
 REFERENCE 2 (bases 1 to 304050)  
 AUTHORS Director-General, Biotechnology Center, Aoki, K., Oguchi, A.,  
 Nagai, Y., Asano, K., Iwama, N., Baba, T., Kuroda, M., Hiramatsu, K. and  
 Kikuchi, H.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-MAR-2002) Director-General, Biotechnology Center,  
 National Institute of Technology and Evaluation, Biotechnology  
 Center, 2Chome 4-9-10 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan  
 (E-mail: bioelite.go.jp, URL: http://www.bio.nite.go.jp/,  
 Tel: 81-3-3481-1933, Fax: 81-3-3481-8424)  
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 17, 2003, 09:13:34 ; Search time 316 Seconds  
(without alignments)  
8089.772 Million cell updates/sec

Title: US-10-043-539A-1

Perfect score: 947

Sequence: 1 gtttcaaatcgttgagg.....gtttcataactgaatcgat 947

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N Genesec 19Jun03.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	329	34.7	400	18 AAV75836	Staphylococcus aur
2	261.4	27.6	387	24 ABN92693	Staphylococcus epi
3	96.2	10.2	8056	25 AB210246	Haematopoietic cel
4	90	9.5	8056	25 AB210246	Haematopoietic cel
5	87.2	9.2	8056	25 AB210100	Haematopoietic cel
6	82	8.7	6292	22 AAS46735	Tumour suppressor
7	80.2	8.5	8056	25 AB210100	Haematopoietic cel.
8	79.4	8.4	101	18 AAV75910	Staphylococcus aur

C 9	77.6	8.2	867	24	ABN92692	Staphylococcus epi
C 10	75.2	8.0	529	21	AA365121	E. coli proliferat
C 11	75.2	7.9	12079	24	ABQ76793	pUC19 promoter-ter
C 12	75.2	7.9	12079	24	ABV74271	Plant specific exp
C 13	75.2	7.9	12085	24	ABQ76792	pUC19 promoter-ter
C 14	75.2	7.9	12085	24	ABV74270	Plant specific exp
C 15	75.2	7.9	12093	24	ABQ76791	pUC19 promoter-ter
C 16	75.2	7.9	12093	24	ABV74269	Plant specific exp
C 17	75.2	7.9	12241	24	ABQ73049	Tomato anthocyanin
C 18	75.2	7.9	12241	24	AA365732	Binary vector DNA
C 19	75.2	7.9	13002	24	ABQ76794	pUC19 promoter-ter
C 20	75.2	7.9	13002	24	ABV74272	Plant specific exp
C 21	75.2	7.9	13737	21	AA54212	Transformation vec
C 22	75.2	7.9	13905	24	ABQ76795	pUC19 promoter-ter
C 23	75.2	7.9	13905	24	ABV74273	Plant specific exp
C 24	75.2	7.9	14446	24	AA517548	Plasmid pTM036. S
C 25	75.2	7.9	15430	24	ABQ76796	PB-DHGLA encoding
C 26	75.2	7.9	15430	24	ABV74274	Plant specific exp
C 27	75.2	7.9	17752	24	ABQ76797	PHARAI encoding de
C 28	75.2	7.9	17752	24	ABV74275	Plant specific exp
C 29	75.2	7.9	19705	24	ABA92074	Vector plasmid pBT
C 30	75.2	7.9	20119	22	AAH26041	Plasmid pNOV524 en
C 31	75.2	7.9	20174	24	ABA92073	Transformation vec
C 32	75.2	7.9	26019	22	AAH26040	Plasmid pNOV523 en
C 33	75	7.9	6664	24	AA561368	Human gene regulat
C 34	74.6	7.9	4086	22	AAH54401	S. epidermidis gen
C 35	74.4	7.9	778	24	ABQ15588	Oligonucleotide fo
C 36	74.4	7.9	778	24	ABQ15589	Oligonucleotide fo
C 37	73.2	7.7	6191	24	ABN80161	Human chemically m
C 38	73.2	7.7	6191	24	ABL70282	Human immune syste
C 39	73.2	7.7	6191	24	ABL70282	Signal transductio
C 40	73.2	7.7	6191	24	ABL31307	Human immune syste
C 41	73.2	7.7	15548	24	ABK34155	S. epidermidis gen
C 42	72.2	7.6	3967	22	AAH54106	Haematopoietic cel
C 43	72	7.6	1501	25	AB210198	Escherichia coli f
C 44	72	7.6	2145	21	AA256364	S. epidermidis gen
C 45	72	7.6	4142	22	AAH54879	

#### ALIGNMENTS

#### RESULT 1

AAV75836  
ID AAV75836 standard; DNA; 400 BP.

XX

XX

AC AAV75836;

XX

DT 16-MAR-1999 (first entry)

XX

DE Staphylococcus aureus contig SEQ ID #1525.

XX

KW Computer readable medium; vaccine; S.aureus infection; immunodetection;

KW cellulitis; eyelid infection; food poisoning; osteomyelitis; therapy;

KW skin infection; surgical wound infection; scalded skin syndrome;

KW toxic shock syndrome; ds.

XX

OS Staphylococcus aureus.

XX

XX

FT Key Location/Qualifiers

FT misc\_feature 301..360

FT /tag=a

FT /note="these bases represent a line of missing text in

the sequence listing in the specification. They

are included to maintain the nucleotide numbering

given in the specification for this DNA sequence"

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FT

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XX

XX

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XX

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XX

XX

XX

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XX

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PR 05-JAN-1996; 96US-0009861.
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Barash SC, Choi GH, Dillon PV, Fannon MR, Kunsch CA;
PI Rosen CA;
XX
XX WPI; 1997-374922/35.
XX
XX Polynucleotide(s) and proteins derived from Staphylococcus aureus
XX stored on computer readable medium and used in the production of
XX anti-S.aureus vaccines
XX
XX Claim 1; Page 1984-1985; 3271pp; English.
XX
XX This sequence represents one of 5191 Staphylococcus aureus DNA sequences
XX of the invention. The DNA sequences are recorded on a computer readable
XX medium, preferably selected from a floppy or hard disk, random access
XX memory (RAM), read-only memory (ROM) or CD-ROM. Homology searches using
XX the S.aureus DNA sequences allows putative functions to be assigned so
XX that protein-encoding or regulatory regions of commercial, therapeutic or
XX industrial importance can be obtained. Specifically, sequences which are
XX likely to encode antigens have been identified and these polypeptides can
XX be used in a vaccine composition against S.aureus infection. The
XX polypeptides can also be used in a kit for the immunodetection of
XX S.aureus in a sample. S.aureus is implicated in numerous human diseases,
XX including cellulitis, eyelid infections, food poisoning, osteomyelitis,
XX skin and surgical wound infections, scalded skin syndrome, toxic shock
XX syndrome, etc. Organisms transformed with the DNA sequences can be used
XX for recombinant production of the polypeptides. The new DNA sequences
XX (and their fragments) are useful as primers or probes for isolating
XX homologues of any of the S.aureus DNA sequences contained on the
XX computer readable medium.
XX
XX Sequence 400 BP; 155 A; 36 C; 44 G; 104 T; 61 other;
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XX Best Local Similarity 84.4%; Pred. No. 2.2e-46;
XX Matches 329; Conservative 0; Mismatches 61; Indels 0; Gaps 0;
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XX 361 AAAATTAACTTAAAAATTTAAATATTGAAGA 390
XX

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AC	ABN92693;
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DT	24-JUL-2002 (first entry)
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DE	Staphylococcus epidermidis ORF nucleic acid sequence SEQ ID NO:2156.
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KW	Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;
KW	antibacterial; gene therapy; gene; ds.
OS	
XX	Staphylococcus epidermidis.
PX	
PN	US6380370-B1.
DD	
PD	30-APR-2002.
XX	
PF	13-AUG-1998; 98US-0134001.
PR	
PPR	14-AUG-1997; 97US-055779P.
PPR	08-NOV-1997; 97US-064964P.
PA	(GENO-) GENOME THERAPEUTICS CORP.
PI	
PII	Doucette-Stamm LA, Bush D;
DR	
DR	WPI; 2002-381255/41.
PT	P-PSDB; ABP40148.
PTT	
PTT	Novel isolated nucleic acid encoding a Staphylococcus epidermidis
PTT	polypeptide, useful for diagnosing and treating bacterial infections -
PS	
PS	Disclosure; SEQ ID 2156; 267pp; English.
CC	
CCC	ABN90518 to ABN93174 represent Staphylococcus epidermidis open reading
CCC	frame (ORF) nucleic acid sequences which encode the amino acid sequences
CCC	given in ABP5114 to ABP31960. The S. epidermidis sequences have
CCC	antibacterial activity and can be used in gene therapy. The sequences
CCC	can also be used in the diagnosis and treatment of bacterial infections,
CCC	particularly S. epidermidis infections. The sequences can be used to
CCC	screen for compounds able to interfere with the S. epidermidis life
CCC	cycle or inhibit S. epidermidis infection.
CCC	N.B. The sequence data for this patent did not form part of the printed
CCC	specification, but was obtained in electronic format directly from the
XXX	USPTO web site.
Seq	
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Query Match	27.6%; Score 261.4; DB 24; Length 387;
Best Local Similarity	81.4%; Pred. No. 4.2e-35;
Matches 315; Conservative	0; Mismatches 71; Indels 1; Gaps 17;
OY	
165	ACCTTGCTCAACAAGATGTGCATCAGAAGGAGTGGTTTAATAATGAGTAAATTAATGA 224
DBD	
1	ACCTTGCTCAACAAGATGTGCATCAG-AGSAGTGGTTTTAATGCGAAAAATTAAAGA 59
OY	
225	TATTAATGATTTAGTCAACGCAACATTTCAAGTTAAGAAGTTTTTCAGAGATACAAAAA 284
DBD	
60	CATCAATGATTTGGTTAATCGCACATTTCAAGTAAAAAAAATTTTTTAGAGATACTAAAA 119
OY	
285	GAGCTTCAATTTGAACATCAAGAAATTTATATTTTAAATCATATTTTAAAGAGTCAGTC 344
DBD	
120	GCAATATNTTAAATATAGAAANNTTATTCITATATCATATTTTGAAGTGNATC 179
OY	
345	TACGAANTCTCACTAAAGAGATTCCTAAGTCTCAGAGTTCAAACCTTACTATTTAAC 404
DBD	
180	TACGAANTATCTTCAAAGAAATGCTACATGTTCAAGTGTAAACCGTATATTATTAAAC 239
OY	
405	TAAAGCTTTACAAAGCTTAAAGATTTTAAATTTGTTATCAAAAGAAAGAGATTTACAAGA 464
DBD	
240	TAAAGCATTTACAAAAATTTAAAGATTTAAATTTATCTATCTTAAAAAGAGAGCGTGCATGA 299
OY	
465	CGAAGAAGCAGTATTCTGTTATGTTTACAGATACACAAAAAGCAATATTTCAAAACTGAT 524
DBD	
300	TGAAGAAGCAGTAAATTGTAATTGTAATCAGATGAACCAACGAGAAAAATAAAAAAATTGAT 359